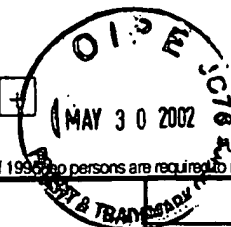


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number	10/050,533
Filing Date	January 18, 2002
First Named Inventor	Michael J. GRAZIANO, et al.
Group Art Unit	2121 2124
Examiner Name	Unassigned Chat DeJUN
Attorney Docket Number	56162.000352

Sheet 1 of 1

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U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code ² (if known)			
CD	U1	5,363,321		Dao Trong et al.	11/08/94	
CD	U2	5,524,089		Takano	06/04/96	
CD	U3	5,570,310		Smith	10/29/96	
CD	U4	5,600,581		Dworkin et al.	02/04/97	
CD	U5	5,604,691		Dworkin et al.	02/18/97	
CD	U6	5,642,305		Pan et al.	06/24/97	
CD	U7	5,703,801		Pan et al.	12/30/97	
CD	U8	5,909,384		Tal et al.	06/01/99	
CD	U9	5,940,312		Hansen	08/17/99	
CD	U10	5,941,939		Pan et al.	08/24/99	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
CD	P1	Haykin, Simon, <i>Communication Systems 4th Edition</i> , Wiley, 2001, page 436	
CD	P2	Brigham, E. Oran, <i>The Fast Fourier Transform and its Applications</i> , Prentice Hall, 1988, pgs 191-193	
CD	P3	Embre, Paul M. and Kimbel, Bruce, <i>C Language Algorithms for Digital Signal Processing</i> , Prentice Hall, 1991, pgs 255-256 and 266 and 267	
CD	P4	Haykin, Simon, <i>Adaptive Filter Theory 3rd Edition</i> , Prentice Hall, 1996, pgs 393-404	
CD	P5	Proakis, John G., Manolakis, Dimitris G., <i>Digital Signal Processing: Principals, Algorithms and Applications 3rd Edition</i> , Prentice Hall, 1996, pgs 23-28	
CP	P6	ITU Standard G.991.2, "Single Pair High Speed Digital Subscriber Line (SHDSL) Transceivers", April 2001, pgs 1-191, Irvine, California	
CP	P7	ITU Standard G.994.1, "Handshake Procedures for Digital Subscriber Line (DSL) Transceivers", June 1999, pgs 1-46, Geneva	
CP	P8	ANSI Standard HDSL2, "High Bit Rate Digital Subscriber Line--2 nd Generation (HDSL2)", February 21-25, 2000, pgs 1-94, Maui, HI	

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